

AL OLA Language School

AL OLA Modern Schools

# Math



4<sup>th</sup> Primary  
First Term



Cairo Governorate Nasr City Ed. Directorate Member of the ASP Net AL OLA Modern language school	 	محافظة القاهرة ادارة شرق مدينة نصر التعليمية عضو شبكة مدارس اليونسكو مدرسة العلا الحديثة (لغات)
4 <sup>th</sup> Primary Math	First Term 2021 / 2022	الصف : الرابع الابتدائى المادة : الرياضيات

### Revision

#### (1) The value and place value :

Number	value	place value
253,463	50,000	Ten Thousand

#### (2) The forms of numbers

- \* standard form such as 430,502
- \* The word form four hundred thirty thousand and five hundred two
- \* Expand form :  $2 + 500 + 30000 + 400000$

#### (3) Multiplying by zero and 1

$$* 0 \times \text{any number} = 0$$

$$* 1 \times \text{any number} = \text{its self}$$

#### (4) Units of measuring length

$$* 1\text{m} = 100\text{ cm}$$

$$* 1\text{ cm} = 10\text{ mm}$$

## (5) Perimeter, the length of line around the figure

\* Perimeter of triangle = sum of its side lengths

\* Perimeter of square = side length  $\times$  4

\* Perimeter of rectangle = ( length + width )  $\times$  2

## (6) Area : the number of square unit forming figure

\* Area of square = side length  $\times$  side width

\* Area of rectangle = length  $\times$  width

## (7) Multiple and factors

\* Multiple of (2) is : 0 , 2 , 4 , 6 , 8 , 10 , 12 , .....

\* Multiple of (3) is : 0 , 3 , 6 , 9 , 12 , 15 , 18 , .....

\* Multiple of (5) is : 0 , 5 , 10 , 15 , 20 , 25 , 30 , .....

\* Multiple of (10) is : 0 , 10 , 20 , 30 , 40 , 50 , 60 , .....

### Note that

- Zero is common multiple of all numbers

- Factors of (3) :  $3 \times 1 \longleftrightarrow 1 \times 3$

- Factors of (12) :  $1 \times 12 \longleftrightarrow 3 \times 4 \longleftrightarrow 6 \times 2$

\* One is common factor of all numbers

## Unit (1)

(1) The digit as 0 , 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9

(2) The number formed from digit or more as : 6 , 9 , 3 , 4 , 5 , 6,517

(3) Numeral as 3 , 49 , twelve , ..... four hundreds

(4) Estimation as      423      400  
                            562      500

(5) Rounding as      126      100 nearest hundred  
                            36,873      37000 nearest 1000

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### **Q1: Complete:**

(1) 10 times of ten thousand is .....

(2) 9 in tens is .....

(3) 50 thousands = .....

(4) 80 millions = ..... thousand

(5) 7, 607 , 563 , 100 = ..... milliard + ..... million + ..... thousand + .....

(6) Place value of zero in 604321 is .....

(7) 5, 707 → ..... ( Estimate )

(8) The place value of digit 5 in 350 , 678 , 102 = .....

(9) ( 5 tens and 8 ones ) × 10 = .....

(10) 5,832 ≈ ..... ( to the nearest thousand )

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### **Q2: Compare and put < , > or = :**

(1) 22,999            23,410      (2) 101,345            111,223

(3) 4,891            4890      (4) 25,321            25 thousand , 321

**Q3:**

(a) Use the following numbers to find the greatest and the smallest numbers

( 2 , 8 , 0 , 4 , 6 )

The greatest:.....

The smallest : .....

(b) Convert to the expanded form

89 million , 645 thousand , 840

(c) Use any strategy to find the result of the following

(1)  $684 + 486 = \dots$

(2)  $752 - 189 = \dots$

**Q4: Find by using midpoint strategy :**

$723$  ( to nearest hundred )  $\approx \dots$



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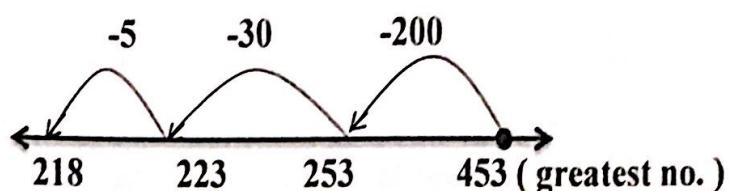
**Unit (2)**

**Addition and subtraction strategies**

**Subtraction strategy :**

(1)  $453 - 235$

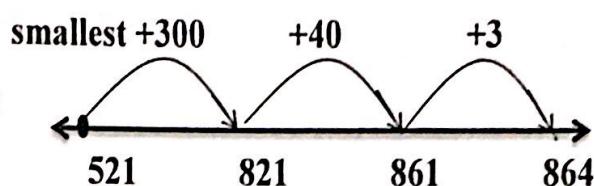
$200 + 3 + 5$



(2)  $864 - 521$

The result  $(3 + 40 + 300)$

$= 343$



**Q1: Find the result ( using the given strategy )**

(1)  $1420 + 230 = \dots$  ( Rounding )

(2)  $6433 - 501 = \dots$  ( Estimating )

(3)  $199 + 35 = \dots$  (compensate. )

(4)  $368 - 118 = \dots$  (compensate. )

(5)  $902 - 899 = \dots$  ( counting up )

(6)  $2549 - 1367 = \dots$  (counting up . )

(7)  $6748 - 3141 = \dots$  (counting back. )

(8)  $71921 + 1012 = \dots$  (Add to subtract. )

**Q2: Use the Bar Models to find X :**

(1)  $X + 3 = 7$

(2)  $X - 2 = 9$

(3)  $3 + 9 = X$

(4)  $19 - X = 5$

**Q3: Complete:**

$$(1) 2 + ..... = 2 \quad ( ..... \text{ property} )$$

$$(2) 131 + 123 = 123 + ..... \quad ( ..... \text{ property} )$$

$$(3) ( 169 + 11 ) + 23 = ..... + ..... = ..... ( ..... \text{ property} )$$

**Q4: Find the result by regrouping:**

$$(1) \begin{array}{r} 21671 \\ + 4012 \\ \hline ..... \end{array}$$

$$(2) \begin{array}{r} 41231 \\ + 96131 \\ \hline ..... \end{array}$$

$$(3) 911231 + 1467 = .....$$

$$(4) 897410 - 19865 = .....$$

$$(5) \begin{array}{r} 17461 \\ - 5612 \\ \hline ..... \end{array}$$

**Q5: Story problems:**

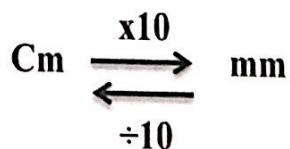
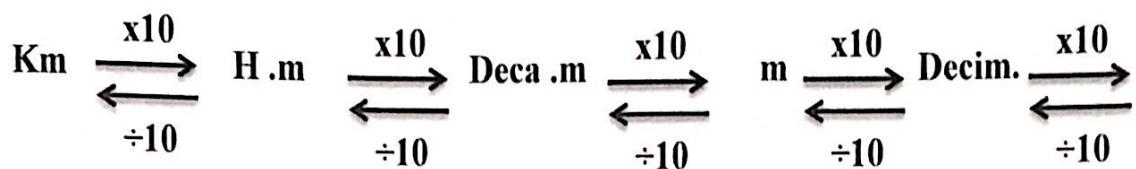
Ali bought a shirt for 260 L.E, trousers for 430 L.E and a shoes for 330 L.E

If Ali has 1300 pounds, find the remaining money with Ali.

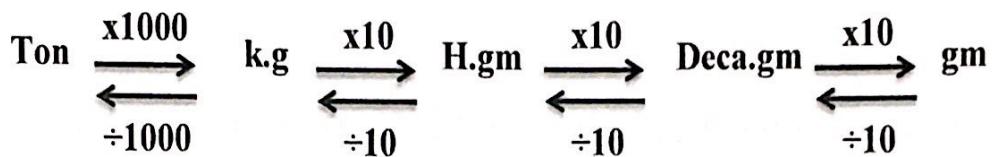
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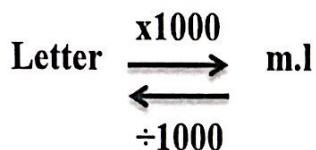
## **(1) Units of measuring length**



## **(2) Units of measuring weight**



### (3) Capacity



## **Q1: Complete:**

(1)	140 cm	3,591 kg
	..... m    .....	..... gm    .....

(2)  $300 \text{ cm} = \dots \text{ m} = \dots \text{ dm}$   
(3)  $5\text{m} = \dots \text{ cm} = \dots \text{ mm}$   
(4)  $8261 \text{ kilogram} = \dots \text{ kilogram}, \dots \text{ gram}$

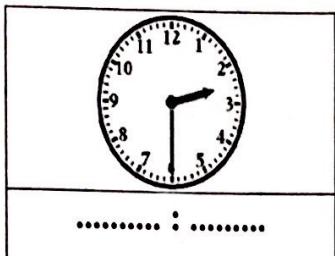
(5) 7,008 kiloliter = ..... kiloliter , ..... liter

(6) 3 days , 24 hours = ..... hours

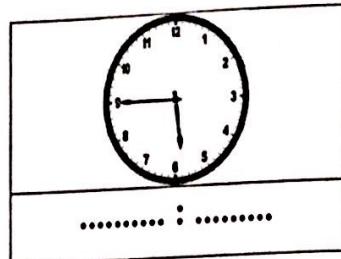
(7) 3 weeks , 3 days = ..... days

(8) 5 minutes , 12 seconds = ..... seconds

(9)



(10)



## **Q2: Story problems**

Yara starts the basketball training at 8 : 45 o'clock and she take one hour and 25 minutes in her training. When she finish the training ?

The time which she finished : .....

## **Q3: Subtract :**

(1) 9 hours : 20 minutes – 5 hours : 45 minutes = .....

## **Q4: Choose the correct answer:**

(1) 3 hours = ..... minutes ( 30 , 60 , 90 , 180 )

(2) 7 kg m and 300 gm = .....

( 7,30 gm , 7300 gm , 73 kg , 3,700 gm )

(3) 3m + 520cm = ..... cm ( 820 , 82 , 8200 , 90 )

(4) 725 Tons = ..... kg m ( 7250 , 72500 , 725000 , 1000 )

(5)  $\frac{1}{2}$  of a day = ..... hours ( 12 , 6 , 3 , 24 )

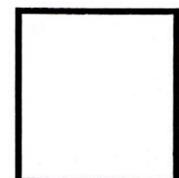
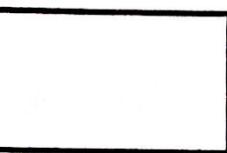
(6) Two weeks and 7 days = ..... days ( 15 , 21 , 24 , 30 )

(7) Litre = ..... mililitre ( 10 , 100 , 1000 , 10000 )

(8) 1 hour and half = ..... minutes ( 45 , 90 , 75 , 60 )

(9) The capacity of a cub of tea , approximately equal ..... ( 100 L , 200 L , 200 m.l , 20 L )

(10) One of units of measuring length is ..... ( meter , kg m , Ton , liter )



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**Unit (4)**

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**(1) Rectangle :** is Quadrilateral figure that has

(a) every two opposite sides equal in length and parallel .

\* Perimeter of rectangle = sum of its sides length

( length + width + length + width )

$= (2 \times \text{length} + 2 \times \text{width}) = 2(\text{length} + \text{width})$

\* Area of rectangle : the number of square units forming figure

( length  $\times$  width )

**(2) Square:** is Quadrilateral figure all sides equal in length

\* Perimeter of square : sum of its sides lengths side = length  $\times$  4

**(3) Find missing dimension of rectangle**

Length of rectangle = (perimeter  $\div$  2 ) – width

Width of rectangle = ( perimeter  $\div$  2 ) – length

**(4) Find side length of square**

Length = perimeter  $\div$  4

Length = the number if multiply by itself given area

### **Q1: Choose the correct answer :**

(1) Which of the following perimeter of rectangle .....  
( length  $\times$  width , ( length + width )  $\times$  2 , 2  $\times$  length , 2  $\times$  width )

(2) Rectangle its length 7cm and width 5cm then its perimeter .... cm ( 13, 3.5, 24 )

(3) Square its side length 6 cm then its perimeter ..... cm ( 18, 3.6, 24 )

(4) The area of rectangle = ..... ( L  $\times$  w , L - w , L + w )

(5) The side length of square 7 mm then its area = ..... mm<sup>2</sup> ( 28, 49, 14 )

(6) Rectangle its length 8 cm and its width 4 cm then its area = .... cm<sup>2</sup> ( 24, 12, 32 )

(7) Rectangle its perimeter 60 cm and its length 20 cm then its width ... ( 3, 10, 40 )

(8) Square its perimeter 40 cm then its side length = ..... cm ( 9, 10, 20 )

(9) Square its area 36 cm<sup>2</sup> then its side length = ..... cm ( 18, 6, 9 )

(10) The perimeter of square = L  $\times$  ..... ( 4, 2, 3 )

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### **Q2: Complete:**

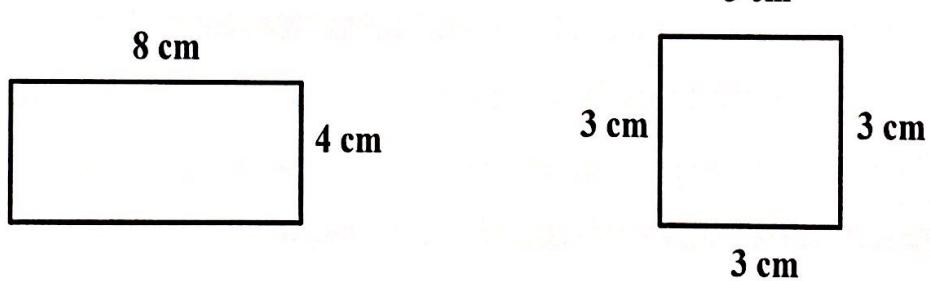
(1) Rectangle its length 5 cm and width 3 cm then its perimeter = .....

(2) Square its side length 6 cm then its perimeter = .....

(3) Area of square = .....  $\times$  .....

(4) Area of rectangle = ( L + ..... )  $\times$  2

(5) Find the area and perimeter of following figure



The perimeter = .....

The area = .....

The perimeter = .....

The area = .....

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**Q1: Choose the correct answer:**

(1) The multiplicative identity is ..... (0, 1, 10, 100)  
(2)  $999 \times 0 =$  ..... (0, 1, 999, 1000)  
(3)  $6 + 6 + 6 = 6 \times$  ..... (6, 12, 3, 4)  
(4) 5 times of number 4 = ..... (5, 4, 9, 20)  
(5)  $6 \times 100 =$  ..... (6, 60, 600, 6000)  
(6)  $8 \times 30 =$  ..... (30, 24, 300, 240)  
(7) If  $5 \times 3 = a$ , then a equals 5 times of ..... (3, 5, 8, 35)  
(8)  $(4 \times 5) \times$  .....  $= 4 \times (5 \times 9)$  (9, 5, 4, 45)  
(9)  $50 \times 7 =$  ..... (50, 7, 350, 3500)

**Q2: Complete:**

(1)  $100 \times 5 =$  .....  
(2) .....  $\times 9 = 90$   
(3)  $9 \times 0 = 0$  ..... property  
(4)  $(2 \times 3) \times 4 = 2 \times (3 \times 4)$  ..... property  
(5)  $7 \times 3 = 3 \times 7$  ..... property

**Q3: Story problems**

(a) Hany bought 100 pieces of cake for a party, if the price of one piece 15 L.E. How much money did Hany pay ?  
.....

(b) 6 friends bought 2 balloons each in one day, then  
How many balloons they will buy in a week ?  
.....

## Unit (6)

- (1) One is common multiple for all numbers .
- (2) One is common factor between two prime numbers .
- (3) Multiple of numbers is product of multiply number by (0 , 1 , 2 , 3 , 4 , ...)
- (4) Zero is common multiple of all number except itself .
- (5) The product of any two numbers is one of common multiple for them .

### **Q1: Choose the correct answer:**

- (1) The common factors of all numbers ..... ( 6 , 4 , 3 , 1 )
- (2) The smallest prime number ..... ( 0 , 1 , 2 , 3 )
- (3) The smallest odd prime number ..... ( 0 , 1 , 2 , 3 )
- (4) The number 24 one of its factor ..... ( 2 , 5 , 10 , all of them )
- (5) The highest common factor between 5 , 7 is ..... ( 1 , 2 , 5 , 35 )
- (6) The prime number just after 11 is ..... ( 12 , 13 , 14 , 19 )
- (7) The number ..... is multiple of 6 ( 1 , 12 , 16 , 28 )
- (8) The number 27 is common multiple of .....  
{ ( 9 , 2 ) / ( 3 , 9 ) / ( 5 , 3 ) / ( 3 , 6 ) }
- (9) The number 10 is common multiple of .....  
{ ( 11 , 8 ) / ( 9 , 6 ) / ( 5 , 2 ) / ( 5 , 3 ) }
- (10) The number ..... is common multiple of all number except itself ( 0 , 1 , 2 , 3 )

### **Q2: Complete:**

- (1) The prime number just comes after 13 .....
- (2) All prime number even except .....
- (3) Factors of number 1 is .....
- (4) The smallest odd prime number .....
- (5) The prime number sum of its factors 14 is .....

### **Q3: Underline the prime number :**

2            7            25            29            34            57

{ 12 }

**Q1: Choose the correct answer:**

(1) The product of  $13 \times 4 = \dots$  (32 - 27 - 43 - 52)  
(2) The number multiplied by 9, the result 99 is ..... (10, 100, 11, 19)  
(3) School has 8 classes, each class has 25 student, then the total number of student = .....  $\{(8 \times 25), (25 - 8), (25 + 9), (25 \div 8)\}$   
(4) Ahmed buy 5 bags, if the price of one bag is 66 L.E, then the price of 5 bags = ..... L.E (71, 210, 330, 400)  
(5) The product of  $3 \times (6 + 60 + 600) = \dots$   $\{(18 \times 3), (1800 + 180 + 18), (1800), (190)\}$   
(6)  $9 \times (7 + 50 + 300) = (9 \times 7) + (\dots \times \dots) + (9 \times 300)$   $\{(50 \times 7), (9 \times 5), (9 + 50), (50 \times 9)\}$   
(7) If  $a \times (6 + 30 + 400) = (5 \times 6 + (5 \times 30) + (5 \times 400))$ , then  $a = \dots$  (6, 2, 5, 3)  
(8)  $16 \times 14$        $10 \times 14$  ( <, >, = )  
(9)  $34 \times 65 = \dots$  {1220, (1200 + 20), 2120, (2000 + 200 + 10)}  
(10)  $15 \times \dots = 1500$  (10, 100, 15, 1)  
(11) Which of the following multiply by (distribution) to  $40 \times 56$   
(a)  $(2 \times 6) + (40 \times 6) + (2 \times 50) + (40 \times 50)$   
(b)  $56 \times (20 + 4)$       (c)  $40(6 + 50)$       (d)  $(2 \times 6) + (20 \times 4)$   
(12)  $6 \times (6 + 40 + 300) = 6 \times \dots$  (436, 346, 46, 364)  
(13)  $5 \times 635$        $5 \times (5 + 30 + 600)$  (<, >, =, otherwise)  
(14)  $6 \times (40 \text{ tens} + 40 \text{ hundreds}) = \dots$  (640, 26400, 264, 840)  
(15)  $8 \times \dots = 160$  (10, 20, 30, 40)

**Q2: Complete:**

(1)  $4 \times 39 = (4 \times 9) + (4 \times \dots)$   
(2) By using multiplying strategies to find  $6,421 \times 6 = \dots$   
(3) 4, 16, 64, ..... , ..... , .....  
(4)  $60 \times 65 = a \times 60 + 3,600$ , then  $a = \dots$   
(5) The place value of 8 in the number 8,076 .....

The order of operation :

- (1) Find the operation in side brokers.
- (2) Multiplying and division from left to right.
- (3) Adding and subtraction from left to right .

**Q1: Choose the correct answer:**

- (1) The multiplication of  $48 \times 9$  is ..... (500 , 5000 , 288 , 432 )
- (2)  $5 \times 2 + 4 =$  ..... ( 9 , 18 , 10 , 14 )
- (3) The value of  $6 \times 12 \div 8 + 3 =$  ..... ( 12 , 13 , 20 , 58 )
- (4)  $3800 \div 100 =$  ..... ( 218 , 38 , 308 , 58 )
- (5) If  $a + 5 \times 6 = 38$  then  $a =$  ..... ( 6 , 8 . 9 . 10 )
- (6) The value  $3 + 3 + 3 \div 3 =$  ..... ( 3 , 9 , 1 , 7 )
- (7)  $14 + 6 \times ( 10 \div 10 ) =$  ..... ( 12 , 64 , 10 , 20 )
- (8) The value of  $90 - 6 + 2 \times 8 =$  ..... ( 100 , 120 , 16 , 84 )
- (9) Ahmed bought pencils for 35 pounds , then he bought a book for the double of the price of the pencils , then he paid ..... ( 70 , 15 , 105 , 35 )
- (10)  $13 + 7 - 25 \div 5 =$  ..... ( 12 , zero , 15 , 25 )

**Q2: Complete:**

- (1) Multiply  $62 \times 19 =$  .....
- (2)  $80 + 8 \times 10 =$  .....
- (3)  $( 5 + 7 ) \div 2 =$  .....
- (4) If  $3 \times 0 + X = 8$  , then  $X =$  .....
- (5)  $8 + ( 15 \div 3 ) - 5 \times 2 =$  .....